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INT FOREST & RANGE  
EXPERIMENT STATION

APR 29 1985

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# Avalanche Notes

U.S. Forest Service  
Westwide Avalanche Network

March 1985

March brought heavy snows to Alaska, the Sierra of California, and much of the Intermountain area. Alyeska, AK recorded 135% of normal snows, and Eaglecrest, AK had a persistently snowy month. At Alyeska, a heavy storm dumped 55 inches on the 16th-19th. The Sierra saw two heavy storms, enough to bring Alpine Meadows 200%, Squaw Valley 200%, and Mammoth Mtn. 150% of normal snows for the month. A storm on the 6th-7th dropped 35-46 inches, and another on the 27th-28th left 39-44 inches. In the Intermountain area, Jackson Hole, WY recorded 99% of normal snowfall; Alta, UT, 108%; Sun Valley, ID, 110%; and Bridger Bowl, MT, 125%.

The Cascades of Washington and Oregon lay in between storm tracks and came up with mostly below-average snows. Stevens Pass recorded 59% of normal and Crystal Mtn., 71%. Mt. Rainier, however, caught generous snows from the 21st-31st and achieved 119% of normal.

The Colorado Rockies showed a wide variety of snowfall amounts. In the northern portion, Copper Mtn. (78%) and Winter Park (87%) were on the dry side, while Berthoud Pass, Breckenridge, Loveland, and Vail all came in with 95-105% of average. Farther south, Aspen recorded 92% of normal, but all other sites were above normal: Monarch, 120%; Crested Butte, 140%; and Wolf Creek, 140%. Wolf Creek caught March's biggest storm and recorded 66 inches on the 27th-30th. In New Mexico, Taos totalled 110% of normal snowfall.

There were three fatal avalanche accidents in March, and one in February that went unreported in last month's Avalanche Notes. On February 12, at the town of Roberts, MT, three boys -- 7-9 years old -- were sledding on the steep slope above a creek when the snow fractured at the top and buried two of the boys. The third ran for help. One victim was uncovered after about 25 minutes from 3-4 feet of snow. He was unhurt. The second boy was uncovered after about 45 minutes from 4-5 feet of snow. He was hospitalized in critical condition and died 9 days later. On March 2 three snowmobilers were caught in a slide at Hatcher Pass, AK. One was partly buried and dug himself out. A second was buried head down with one foot on the surface. Rescuers dug him out, unhurt. The third was not found until 4 hours later when a probe team struck his body about 10 feet beneath the surface. He was dead when uncovered. On March 19 at Park City, UT, two skiers released a slide on a closed slope which flowed onto an open slope where spectators had been watching a World Cup race. One of the two skiers was buried, but was dug out quickly without serious injury. A second victim was a woman spectator who, according to newspaper accounts, skied next to an embankment where she lay down. She was uncovered in 20 minutes, hospitalized, and died the following day. On March 24 near Berthoud Pass, CO, three ski tourers were caught in a hard slab avalanche. Two were partly buried, and one was completely buried.

Rocky Mountain Forest and Range Experiment Station

A probe team located his body 3 feet deep, 3 hours later. He did not respond to resuscitation efforts.

Two other victims suffered broken bones in March -- a heli-ski guide in Utah broke ribs on the 4th, and a ski tourer near Ashcroft, CO broke an ankle on the 13th. The season's avalanche statistics thru March are tabulated below.

Total Avalanches Reported			Damage Summary - This Winter									
Area	This month	This winter	People				Vehicles			Avalanche Damaged		
			C	B	I	K	B	D		Bldgs	Lifts	Misc
Central and So. Rockies	552	2252	40	14	2	5	4	0		3	0	0
Intermountain	334	1476	28	15	5	5	0	0		0	0	0
West Coast	981	2840	38	8	8	2	4	0		0	0	2
All Areas	1867	6568	106	37	15	12	8	0		3	0	2



U.S. FOREST SERVICE  
ALPINE SNOW AND AVALANCH RESEARCH PROJECT  
RM STATION FORT COLLINS, COLO.

MARCH 1985

SUMMARY OF WEATHER AND SNOW CONDITIONS

STATION	SNOWFALL				WATER EQUIVALENT				SNOW DEPTH				TEMPERATURE				WIND SPEED AND DIRECTION			
	TOTAL IN.	MAX 1 IN. HR.	NO. OF DAYS	AVG. IN.	TOTAL IN.	MAX 1 IN. HR.	NO. OF DAYS	AVG. IN.	MAX 1 IN. HR.	MIN IN.	AVG. IN.	MEAN DEGREES F	MAX DEGREES F	MIN DEGREES F	AVG. DEGREES F	AVG MPH	PERIODS OF GUSTS	HOUR OF GUST	FASTEST MPH	D T
ARAPAHO BASIN, COLO	50.0	1.0	1	50.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
ASPER HIGHLANDS, CO	60.0	1.0	1	60.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
ASPER MOUNTAIN, COLO	40.0	1.0	1	40.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
BEAVER CREEK, COLO	42.0	1.0	1	42.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
BERTHOOD PASS, COLO	57.0	1.0	1	57.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
BRECKENRIDGE, COLO	50.0	1.0	1	50.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
COPIER MOUNTAIN, COLO	40.0	1.0	1	40.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
GOULDS, COLO	50.0	1.0	1	50.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
LOVELAND PASS, U.S.	57.0	1.0	1	57.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
MARY JANE, COLO	40.0	1.0	1	40.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
MONARCH, COLO	60.0	1.0	1	60.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
PURGATORY, COLO	60.0	1.0	1	60.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
SUNLIGHT, COLO	62.0	1.0	1	62.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
TAOS, NEW MEXICO	50.0	1.0	1	50.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
TELLURIDE, COLO	50.0	1.0	1	50.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
WILEY, COLO	60.0	1.0	1	60.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
WINTER PARK, COLO	60.0	1.0	1	60.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
WOLF CREEK, COLO	120.0	1.0	1	120.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
INTERMOUNTAIN																				
ALTA, UTAH	99.5	1.0	1	99.5	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
BIG SKY, MONT	72.0	1.0	1	72.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
BRIDGER, MONT	60.0	1.0	1	60.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
JACKSON HOLE, WYO	50.0	1.0	1	50.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
PARK WEST, UTAH	70.0	1.0	1	70.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
SNOWBLIND, UTAH	94.0	1.0	1	94.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
SUN VALLEY, UTAH	80.0	1.0	1	80.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
TELEGRAPH PASS, WYO	61.5	1.0	1	61.5	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
WEST COAST																				
ALPINE MEADOWS, CAL	114.0	1.0	1	114.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
CRYSTAL MOUNTAIN, WASH	130.0	1.0	1	130.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
CRYSTAL MOUNTAIN, WASH	130.0	1.0	1	130.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
LAKE CREST, ALASKA	61.0	1.0	1	61.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
MALIBU, CALIF	86.0	1.0	1	86.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
MT. HOOD, ORE	124.0	1.0	1	124.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
MT. KATAHDIN, ME	124.0	1.0	1	124.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
MT. ROOSEVELT, WASH	124.0	1.0	1	124.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
MULTNOMAH, ORE	124.0	1.0	1	124.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
SNOWMASS, CALIF	124.0	1.0	1	124.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
STEVENS PASS, CALIF	124.0	1.0	1	124.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29
SUGAR BOULDER, CALIF	124.0	1.0	1	124.0	1.40	24	11	10	10	3	1	75	41	67	73	28.6	15.6	17.8	35.3	29

-- DATA INCOMPLETE OR MISSING  
-- ONE OR MORE DAYS OF RECORD  
-- IF ENTERED IN THE STATION COLUMN, LESS THAN 37.6-HOUR PERIODS ARE MISSING  
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MARCH 1985  
 AVALANCHE SUMMARY

AREA	TOTAL		DATES OF	MAX IN ONE DAY NO.		NUMBER OF DAYS WITH		TYPE OF AVALANCHE		FRACTURE LINE HEIGHTS IN FEET		VERTICAL DESCENT IN FEET		AVALS ACROSS MAJOR ACCESS ROADS NO.
	A	V		A	V	A	V	A	V	GE	GL	GE	GL	
	THIS MONTH NO.	THIS WINTER NO.	F	D	D	A	V	A	V	2	4	200	500	
CENTRAL AND SOUTHERN ROCKY MOUNTAINS														
ARAPAHO BASIN, COLO	21	95	1	30	13	8	1	19	13	27	2	21	14	11
ASPEN HIGHLANDS, COLO	43	123	6	30	10	11	2	30	13	27	2	21	14	11
ASPEN MOUNTAIN, COLO	3	12	28	28	28	11	1	25	13	27	2	21	14	11
ASPEN MOUNTAIN, COLO	33	168	28	28	28	11	1	25	13	27	2	21	14	11
BEAVER CREEK, COLO	24	161	12	29	16	10	1	15	13	27	2	21	14	11
BERTHOUD PASS, U.S.40	13	96	5	22	15	6	1	16	13	27	2	21	14	11
BRECKENRIDGE, COLO	16	97	3	31	15	7	1	16	13	27	2	21	14	11
LOPPER, COLO	37	94	11	31	15	9	2	31	13	27	2	21	14	11
CRESTED BUTTE, COLO	32	94	11	31	15	9	2	31	13	27	2	21	14	11
GOTHIC, COLO	58	287	4	31	15	12	2	10	12	27	2	21	14	11
LOVELL BASIN, COLO	13	182	4	31	15	12	2	10	12	27	2	21	14	11
LOVELL PASS, U.S. 6	15	178	4	31	15	12	2	10	12	27	2	21	14	11
MONARCH, COLORADO	44	36	12	29	13	3	0	1	18	27	2	21	14	11
RED MTN PASS, U.S.550	50	264	29	29	20	8	1	18	13	27	2	21	14	11
SILVERTON, COLO	1	9	29	29	11	1	0	0	11	27	2	21	14	11
STEAMBOAT SPRINGS, CO	11	30	25	31	11	5	0	11	13	27	2	21	14	11
SUNLIGHT, COLORADO	1	371	11	31	12	5	0	12	13	27	2	21	14	11
TAOS, NEW MEXICO	178	30	11	31	12	5	0	12	13	27	2	21	14	11
TELLURIDE, COLO	3	30	28	31	12	5	0	12	13	27	2	21	14	11
URAD GLEN, COLO	7	20	9	31	11	2	0	5	5	27	2	21	14	11
VAIL, COLO	25	58	9	31	11	2	0	5	5	27	2	21	14	11
WOLF CREEK, COLO	20	18	9	31	11	2	0	5	5	27	2	21	14	11
WOLF CREEK PASS, US 160	14	18	9	31	11	2	0	5	5	27	2	21	14	11
INTERMOUNTAIN														
ALTA, UTAH	51	190	4	31	11	4	1	47	23	6	0	32	13	1
BIG SKY, MONT	52	333	2	31	10	10	0	29	1	14	0	40	15	0
HITCHCOCK MOUNT, MONT	87	379	1	31	10	15	0	36	1	14	0	40	15	0
JACKSON HOLE, WYO	44	213	3	31	15	5	0	30	6	13	0	45	19	0
SNOWJUNG, UTAH	67	219	3	31	12	11	1	61	2	13	0	45	19	0
SOLITUDE, UTAH	20	92	3	31	12	3	0	24	2	25	0	26	19	0
TETON PASS, WYO 22	7	18	1	31	12	3	0	24	2	25	0	26	19	0
WEST COAST														
ALPINE MEADOWS, CAL	255	725	5	27	6	7	0	255	0	39	2	181	26	1
ALYCEA, ALASKA	98	252	2	27	16	13	0	41	5	63	13	195	84	0
CRYSTAL MOUNTAIN, WASH	123	289	2	27	16	13	0	123	0	15	10	127	26	0
EAGLE CREEK, ALASKA	13	47	1	27	23	3	0	19	0	1	1	0	0	0
JUNE MOUNTAIN, CALIF	10	19	2	27	23	3	0	19	0	1	1	0	0	0
KIRK MOUNTAIN, CALIF	54	222	2	27	23	3	0	57	0	25	6	57	30	0
MAMMOTH MOUNTAIN, CALIF	110	219	2	27	23	3	0	104	0	27	6	59	31	0
MT. HOOD, WASH	61	219	2	27	23	3	0	61	0	27	6	59	31	0
MT. HAYDEN, WASH	10	30	2	27	23	3	0	10	0	27	6	59	31	0
MT. ROSE, CALIF	69	154	2	27	23	3	0	68	0	35	1	54	20	0
SNOWY MOUNTAIN, CALIF	35	131	1	27	23	3	0	35	0	25	0	54	20	0
SQUAW VALLEY, CALIF	94	197	4	27	23	3	0	90	15	25	0	71	26	0
STEVENS PASS, U.S. 2	24	124	5	27	23	3	0	19	10	25	0	71	26	0
SUGAR BOULDER, CALIF	10	15	2	27	23	3	0	19	10	25	0	71	26	0

---DATA INCOMPLETE OR MISSING  
 \*---GEOMETRIC THAN 0.05  
 \*---ALSO OCCURRED ON OTHER DAYS